

## ABSTRACT

A measuring method of the contact resistance of a probe includes bringing a plurality of probes including a first and  
5 second probes into contact with a plurality of electrode pads that is disposed on a semiconductor device to be electrically tested and connected each other with a conductive wiring; connecting a power supply to at least one predetermined first probe of the plurality of probes and supplying a current or  
10 a voltage from the first probe through the electrode pad and the wiring to the second probe to the semiconductor device; measuring the contact resistance between the electrode pad and the probe based on the current or the voltage supplied to the semiconductor device; judging whether the measured contact  
15 resistance is equal to or more than a predetermined value or not; and when the contact resistance is equal to or more than the predetermined value, the probes are cleansed.